

Global Uncooled Infrared Focal Plane Detector System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Uncooled Infrared Focal Plane Detector System market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 294 million by 2032 with a CAGR of 6.2% during review period.

An Uncooled Infrared Focal Plane Detector System is a thermal imaging detection system that operates without cryogenic cooling. It uses microbolometer or other thermal-sensitive materials arranged in a focal plane array to detect infrared radiation emitted by objects. These systems convert temperature differences into electrical signals, enabling thermal imaging in devices such as infrared cameras, surveillance systems, automotive night-vision sensors, industrial inspection tools, and firefighting equipment. They are valued for their low cost, small size, low power consumption, and durability, making them widely used across both commercial and defense applications. In 2025, global Uncooled Infrared Focal Plane Detector System production reached approximately 180 k units, with an average global market price of around US\$ 890 per unit. The production capacity for Uncooled Infrared Focal Plane Detector System in 2025 was approximately 190 k units. The typical gross profit margin for Uncooled Infrared Focal Plane Detector System between 30% and 40%.

This report is a detailed and comprehensive analysis for global Uncooled Infrared Focal Plane Detector System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Uncooled Infrared Focal Plane Detector System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Focal Plane Detector System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Focal Plane Detector System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Uncooled Infrared Focal Plane Detector System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Uncooled Infrared Focal Plane Detector System
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Uncooled Infrared Focal Plane Detector System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR, Leonardo DRS, Lynred, L3Harris, SEEK Thermal, BAE Systems, Raytheon, NEC, SCD, VIGO Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Global Uncooled Infrared Focal Plane Detector System Market 2026 by Manufacturers, Regions, Type and Applicati...

Uncooled Infrared Focal Plane Detector System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

VOx

?-Si

Market segment by Pixel Pitch

8?m/6?m

10?m

12?m

17?m

Others

Market segment by Application

Civilian

Government

Military

Major players covered

Teledyne FLIR

Leonardo DRS

Lynred

L3Harris

SEEK Thermal

BAE Systems

Raytheon

NEC

SCD

VIGO Photonics

Wuhan GuideInfrared

Raytron Technology

Zhe JIANG Dali Technology

Northern Guangwei Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Uncooled Infrared Focal Plane Detector System product scope,

Global Uncooled Infrared Focal Plane Detector System Market 2026 by Manufacturers, Regions, Type and Applicati...

market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Uncooled Infrared Focal Plane Detector System, with price, sales quantity, revenue, and global market share of Uncooled Infrared Focal Plane Detector System from 2021 to 2026.

Chapter 3, the Uncooled Infrared Focal Plane Detector System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Uncooled Infrared Focal Plane Detector System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Uncooled Infrared Focal Plane Detector System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Uncooled Infrared Focal Plane Detector System.

Chapter 14 and 15, to describe Uncooled Infrared Focal Plane Detector System sales channel, distributors, customers, research findings and conclusion.

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